REMARKS/ARGUMENTS

Claims 1-4 and 7-23 were pending at the time of the mailing of the outstanding Office Action. Claims 1-3, 8, 10, 11 and 16-23 are withdrawn from consideration. By this amendment, no claims have been added or cancelled. Claim 14 has been amended.

In the Office Action of 4 September 2008, claims 4, 7, 9, and 12-15 were provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-6 and 21-24 of co-pending US App. No. 10/706,717, as being unpatentable over claims 1-3, 5, 7-9 and 16-19 of co-pending US App. No. 10/596,797, as being unpatentable over claims 1-9 and 11 of co-pending US App. No. 10/908,729, as being unpatentable over claims 1-4 of co-pending US App. No. 11/221,322, and as being unpatentable over claims 1-4 of co-pending US App. No. 11/221,344. Claims 4, 7, 9, and 15 stand rejected under 35 U.S.C. § 102(b) as being anticipated by US Pat. No. 3,687,135 to Stroganov et al. (hereinafter "Stroganov"). Under 35 U.S.C. § 103(a), claims 12-14 were rejected as obvious over Stroganov.

Claim 14 stands rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. The Examiner's position is that the term "about" preceding the weight percentage of each element does not appear in the specification and therefore claim 14 includes subject matter not described in the specification. While the Applicants maintain that additional portions of the specification such as paragraph 49 contain language which would indicate the approximate nature of the quantities of the alloy components, in the interest of economy in prosecution of the application, claim 14 has been amended to obviate this rejection.

The Applicants again request that consideration of the provisional rejections of claims 4, 7, 9, and 12-15 on the ground of nonstatutory obviousness-type double patenting be deferred until the patentability of any of the cited co-pending applications has been determined.

In maintaining the rejection under 35 U.S.C. § 102(b), the Examiner again states, "The limitations in the claim of 'inhibiting the proliferation of smooth human muscle cells wherein the formulation is adapted for intravascular liberation after implantation in a vascular vessel' are not

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given patentable weight, since the composition of Stroganov et al. has pharmaceutical use in bone surgery, and thus would be capable of the intended use of the claimed invention." The examiner additionally states that the previously forwarded arguments regarding adaptation for implantation in a vascular vessel, inhibition of smooth muscle proliferation and intravascular liberation is unpersuasive. The Examiner alleges that these limitations are drawn to an intended use and do not impart any structural limitations on the composition. The Examiner also indicates that "adapted for" clauses are an example of language that suggest or makes optional, but does not require, a step or structure. The Examiner cites MPEP 2106 II in support of this contention. However, the cited section of the MPEP only indicates that such language "may raise a question of the limiting effect of the language in a claim." "Wherein" and "whereby" clauses are also included in this categorization. Clearly, the MPEP does not indicate that such clauses are always non-limiting. Indeed, such clauses are routinely used to expressly limit claims. Instead, these phrases merely "may raise a question" as to their limiting effect.

Contrary to the Examiner's assertion, the phrase "adapted to be implanted in a vascular vessel" does provide a structural limitation, such as use as a stent for example, as discussed throughout the specification and as illustrated in Figs. 1-3. The phrase "wherein the formulation is adapted for intravascular liberation after implantation in a vascular vessel" also provides a limitation on the structure in that the formulation must degrade within the vessel. Contrary to the assertion made in the final Office Action, this limitation also provides a structural limitation. As described in paragraph 0021, such behavior is caused by an at least substantially biodegradable carrier being present. Therefore, these elements of claim 4 clearly provide structural limitations to the formulation and therefore should be given patentable weight.

As stated previously, Stroganov does not teach or suggest such elements. Stroganov instead provides a formulation that is intended and adapted for use in bone surgery, not for placement in vascular vessels. Stroganov does not provide any teaching or suggestion that an alloy of this composition is suitable for implantation in a vascular vessel under any conditions, or that it may be adapted for intravascular liberation as recited in claim 4. Because Stroganov does not teach or suggest such elements, claim 4 patentably distinguishes over Stroganov.

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Similarly, the assertion in the Final Office Action that claim 15 does not impart a structural limitation is also incorrect. Claim 15 depends from claim 4. While claim 4 calls for the presence of one or more of yttrium (Y), neodymium (Nd) or zirconium (Zr), claim 15 additionally recites that the structure delivers yttrium to smooth muscle cells at specific levels. This is also a structural limitation, in that it not only specifically call for the presence of yttrium, but it also calls for adaptation for delivery at specified levels. As discussed above, the presence of a biodegradable carrier provides delivery through biodegradation at a predetermined rate. As also discussed previously, Stroganov only discloses the use of their composition for joining bone fragments and to stimulate bone growth. Stroganov does not teach or suggest the delivery of yttrium to smooth muscle cells, and therefore, Stroganov also does not teach or suggest the delivery of the specified amounts of yttrium to smooth muscle cells as recited in claim 15.

Therefore, claims 4, 7, 9, and 15 patentably distinguish over US Pat. No. 3,687,135 to Stroganov et al. Withdrawal of the rejections under 35 U.S.C. § 102(b) is respectfully requested.

Claims 12-14 stand rejected under 35 U.S.C. §103(a) as being obvious over Stroganov. It is alleged in the final Office Action that a person of ordinary skill in the art would have found it obvious to arrive at the present formulations as recited in claims 12-14 based on Stroganov's disclosure of the use of a composition containing rare earth metals in the range of 0.4%-4.0% by weight. The Applicants reiterate that the teachings of Stroganov have not been properly considered as a whole and therefore the desirability of its modification has been found with the aid of hindsight provided by the claimed invention.

As stated previously, Stroganov does not provide that the composition in question inhibits the proliferation of human smooth muscle cells. To the contrary, Stroganov is silent regarding the effect of such a composition on smooth muscle cells and actually indicates that the composition *stimulates* the proliferation of tissue, specifically bone tissue (Stroganov, column 2, lines 10-12). Stimulation of tissue growth in a vascular vessel would be undesirable, as likely triggering restenosis (see paragraph 0005 of specification). Therefore, Stroganov teaches away from use of the recited compositions adapted as a vascular vessel implant by providing a composition that stimulates cell growth instead of inhibiting it. A person having ordinary skill in

the art would not have had a reasonable expectation of success in using Stroganov's composition

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in the present invention.

As discussed above regarding claim 4, from which claims 12-14 depend, Stroganov also

does not provide any teaching or suggestion of the implantation of the composition in a vascular

vessel or adaptation for intravascular liberation of the composition after implantation in a

vascular vessel as claimed. As also stated previously, Stroganov clearly provides an upper limit

of total rare earth metals of 4.0 % by weight (column 2, line 21) while the claimed invention

provides a total rare earth weight percentage (yttrium plus non-yttrium rare earths such as

neodymium) of 5.2 % (claim 12), 5.5 % (claim 13), or 6.3% (claim 14). It should also be noted

that claim 14 has been amended to remove "about" from this claim to provide "Yttrium in an

amount of 4.1 % by weight." Therefore, the amount of yttrium recited in claim 14 can not be said

to overlap the range of rare earth metals (which includes ytrrium) of Stroganov.

Finally, as also stated previously, the lapse of 30 years between the issue date of

Stroganov (29 August 1972) and the priority date of the present invention (13 November 2002),

additionally demonstrates that the modification of Stroganov as suggested by the Examiner was

not obvious to one of ordinary skill in the art at the time of the invention, despite well-publicized

efforts to improve therapy for heart disease during this time period. For these reasons, claims 12-

14 patentably distinguish over Stroganov. Withdrawal of the rejections under 35 U.S.C. § 103(a)

is respectfully requested.

Because the amendments presented herein place the claims under consideration in

condition for allowance, entry of this Amendment after Final Rejection is appropriate. The

amendments will not necessitate an additional search. In the event that the Examiner disagrees

with the Applicants regarding the allowability of the pending claims, entry of the Amendment

should still be made on the grounds that amendment of claim 14 simplifies matters under

consideration for appeal.

The outstanding Office Action was electronically transmitted on 4 September 2008. The

Examiner set a shortened statutory period for reply of 3 months from the mailing date.

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Therefore, no extension of time or accompanying fee is believed to be due in making this response. Nevertheless, the Applicants hereby make a conditional petition for an extension of time for response in the event that such a petition is required. No claims have been cancelled or added. Therefore, no additional claim fees are believed to be due. However, in the event that a fee for the filing of his response is insufficient, the Commissioner is authorized to charge any fee deficiency or to credit any overpayment to Deposit Account 15-0450.

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Respectfully submitted,

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